

November 15 -17, 2005: Town & Country Convention Center - San Diego, CA

Net Ready & Information Assurance Certification

Dwayne A. Camper SPAWAR 053

Certification, System Implementation and Engineering Support Department *(CSIES)*



Net Ready KPP Components



Information Assurance Accreditation

Protect

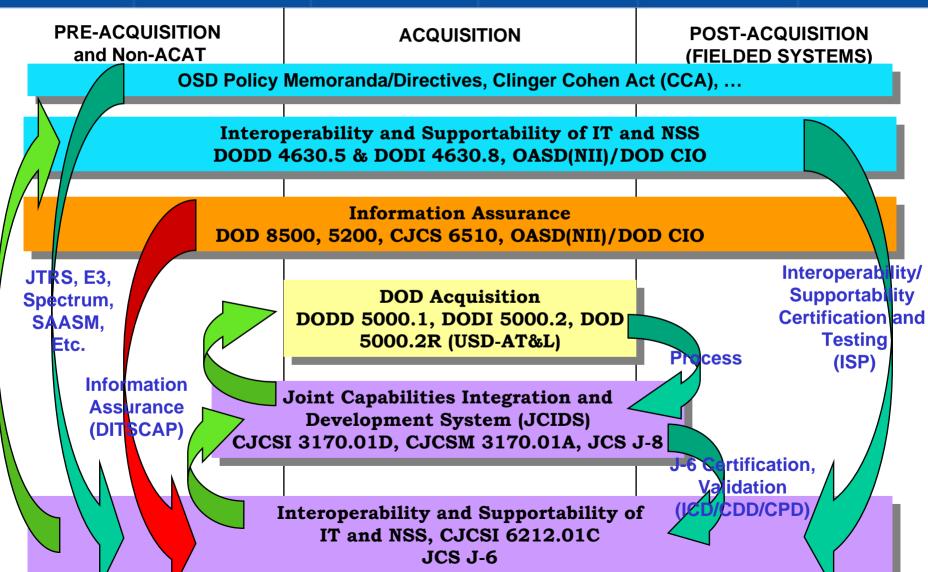




Defend

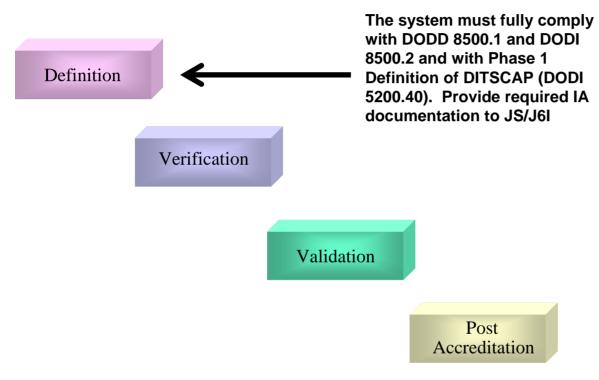
DOD and Joint Policy and Processes





Information Assurance Accreditation





Data/Information:

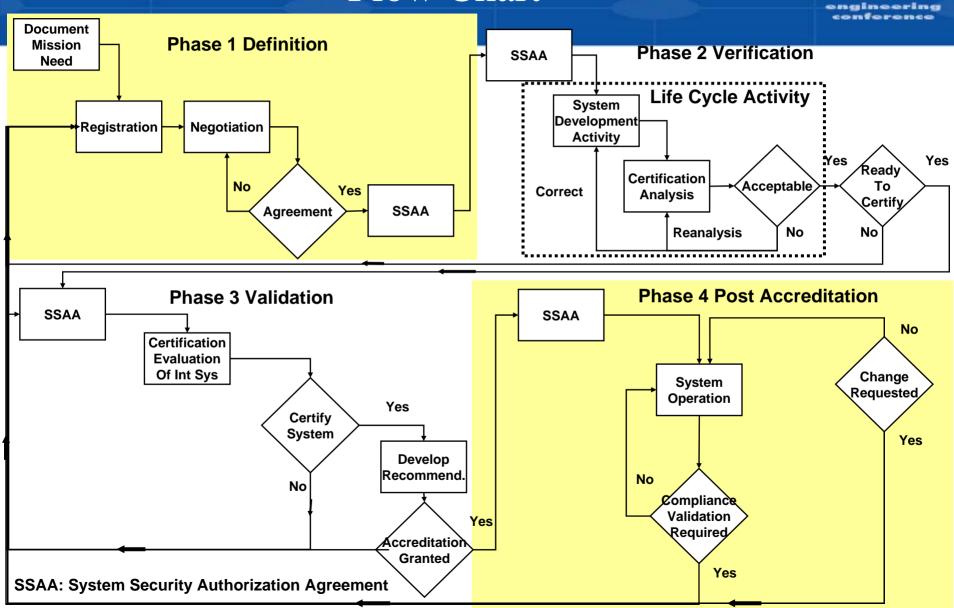
- Availability
- Integrity
- Authentication
- Confidentiality
- Non-repudiation

INFORMATION ASSURANCE (IA): Information Operations that <u>protect and</u> <u>defend</u> information and information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation.

^{*} DoD Information Technology Security Certification and Accreditation Process

Information Assurance Accreditation Flow Chart





NR KPP (CJCSI 6212.01C)



Focus has shifted to availability, as and the Net

Ready Key Ace Parameter (NR K)

Net R

All activity in policy-enforg contro data-sharin NCOW-R and GIG-KII be satisfied to the requirer of the specific Joint integra chitecture products (in data correctness, ailability and data proce and information ass accreditation, spe threshold (T) and ob values.

Threshold (T)

100% of interfaces;
services; policyforcement controls;
lata correctness,
lity and
property an

Objective (O)

o% of rfaces; ices; policy-rcement rols; and correctness, lability and cessing quirements in the integrated architectures

6212.01D (Draft) NR KPP



Net Ready KPP	Ir
	The system mus
	critical operation
Net-Ready: The system	system's integrate
must support Net-Centric	satisfy the ted
military operations. The	transition to Net-C
system must be able to	
enter and be managed in	1) DISR man
the network, and	identii
exchange data in a	2) DISR mandate
secure manner to	KIP d
enhance mission	3) NC(
effectiveness. The	4) Information
system will not	including availabil
significantly increase the	confidentiality,
workload of operators,	issuance of an Ir
system administrators, or	(IATO) by the Des
maintainers.	(

Not Doody KDD

Threshold (T)

The system must support execution of joint critical operational activities identified in the system's integrated architecture products and satisfy the technical requirements for transition to Net-Centric military operations to include

- 1) DISR mandated GIG IT standards identified in the TV-1,
- DISR mandated GIG KIPs identified in the KIP declaration table,
 - 3) NCOW RM Services
- 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an Interim Approval to Operate (IATO) by the Designated Approval Authority (DAA), and
- 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes identified in the SV-6.

Objective (O)

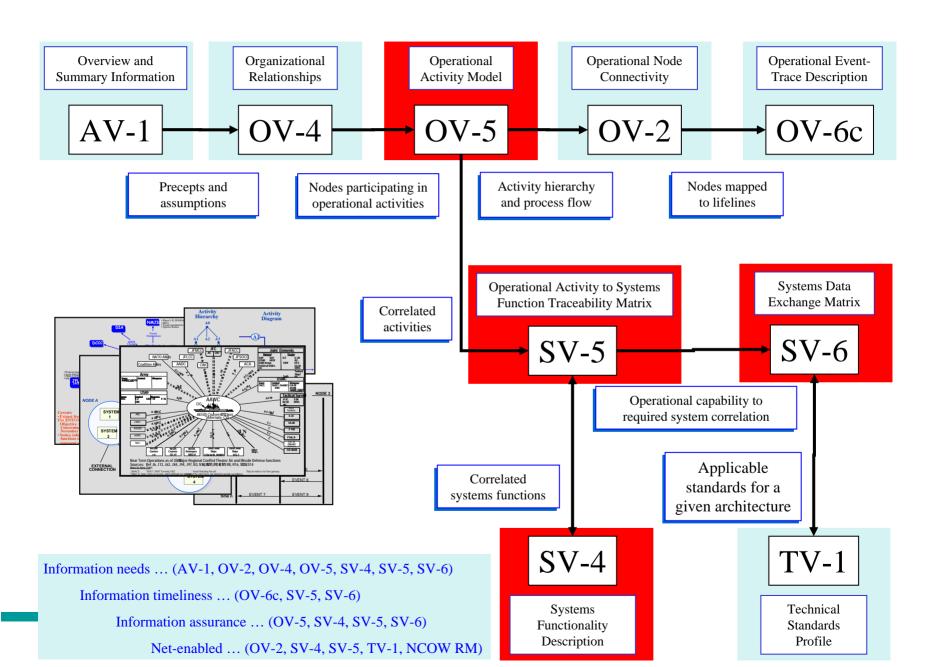
The system must support execution of all joint operational activities identified in the system's integrated architecture products and satisfy the technical requirements for Net-Centric military operations to include

- DISR mandated GIG IT standards identified in the TV-1,
- 2) DISR mandated GIG KIPs identified in the KIP declaration table,
 - 3) NCOW RM Services
- 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an Interim Approval to Operate (ATO) by the Designated Approval Authority (DAA), and
- 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes identified in the SV-6.

NR-KPP Information Assurance Compliance Statement

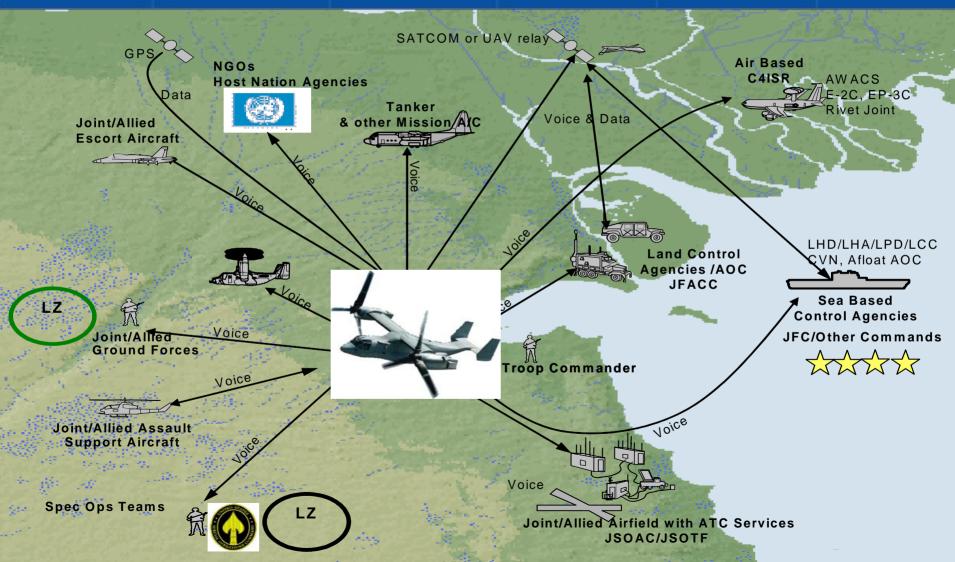
• Information assurance is an integral part of net readiness. This system is currently in full compliance with DOD Directive 8500.1 and DOD Instruction 8500.2, DOD Instruction 8500.40, DODI 5200.40, and has made the required Information Assurance documentation available to the Joint Staff J-6 for review.

Integrated Architecture Product Relationships



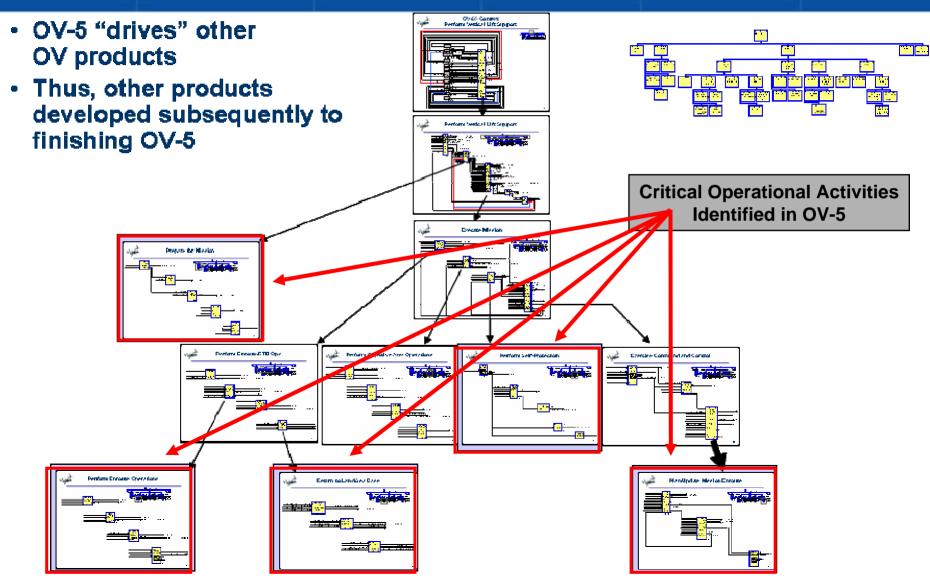
V-22 Net Ready Key Performance Parameter (NR KPP)





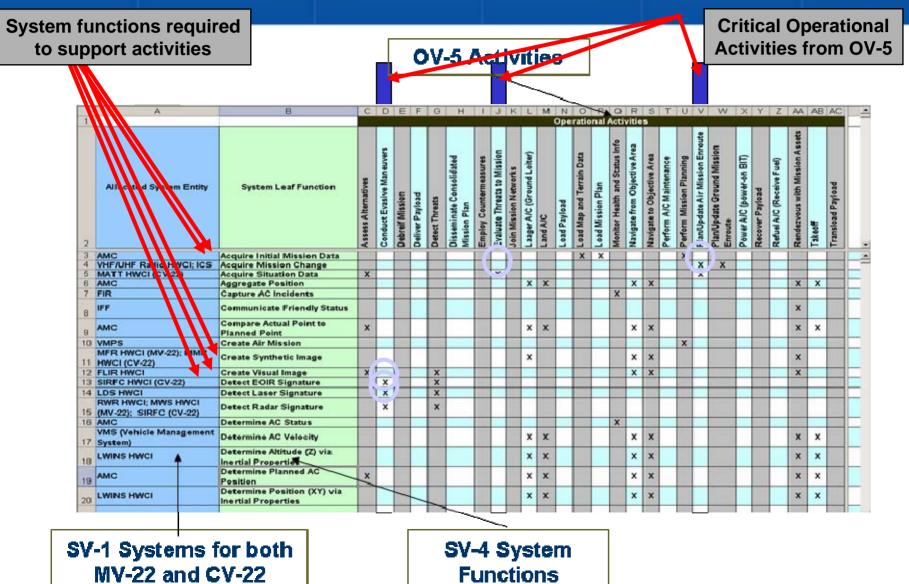
OV-5 Operational Activities





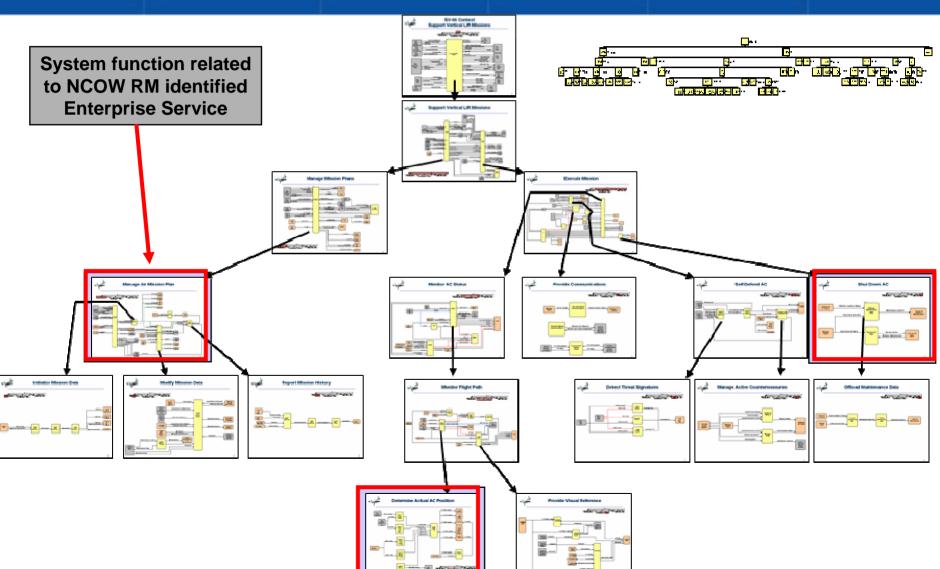
SV-5 System Functions vs. Operational Activities





SV-4 System Functions





SV-6 System Data Exchanges

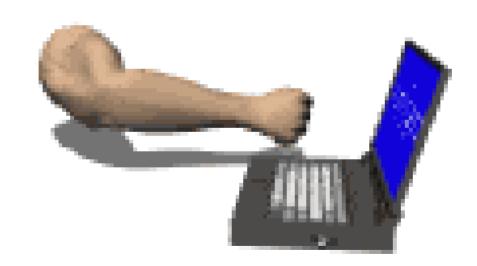


Needline	Transaction Type	Information Description	Source Node	Frequency	Bandwidth	Destination Node	Frequency	Bandwidth	Collaborative or One-Way	Timeliness	Encrypted	Classification	Critical
1.1.1	UHF	Airspace Control	KIPs are identified by media type of system data				Varies	25 KHz	Collaborative	<5 Secs (T)	No	Unclass	Yes
1.1.2	Data	Airspare Control Agency Airspare Agency Agency Aliana See SV-2)				Varies	25 KHz	Collaborative	<5 Secs (T)	No	Unclass	Yes	
1.1.3	VHF 🗡	Airspace Control	Air Traffic Control (ATC)/ Controlling Agency	225-399.975 MHz	25 KHz	A/C	Varies	25 KHz	Collaborative	<5 Secs (T)	No	Unclass	Yes
1.1.5	Altitude	Airspace Control	Air Traffic Control (ATC)/ Controlling Agency	116-149.975 MHz 225-399.975 MHz	25 KHz	A/C	Varies	25 KHz	Collaborative	<5 Secs (T)	No	Unclass	Yes
1.2.1	UHF SATCOM	Airspace Control	Air Traffic Control (ATC)/ Controlling	30-512 MHz	TBD	A/C	Varies	TBD	Collaborative	<5 Secs (T)	Yes	Unglass	No
(l.	System data exchange required to perform a previously identified system function l.e. operationally effective information exchange)								Collaborative	SV-6 data fields help			
1.3.2	TACAN	Navigation Advisory	(ATC)/Controlling Agency	N/A	N/A	A/C	TBD	TBD	One-Way	< 5 dete	ermine l	A requi	remen
2.1.1	UHF	Navigation Advisory	Civilian Aircraft	TBD	TBD	A/C	TBD	TBD	Collaborative	< 5 Secs (T)	No	Unclas	Yes
3.1.1	UHF	Navigation Advisory	COCOM/VIPSAM	TBD	TBD	Joint Allied Aircraft	30-400 MHz, 8.33KHz	30-88 MHz, 108-156 MHz, 136- 174 MHz, 224-400 MHz (AM), 225-400 MHz (FM)	Collaborative	< 5 Secs (T)	No	Unclas	Yes

Way Ahead



Bottomline – there is a lot to be gained ...



Don't let your systems get pounded!!...

Information Assurance





SOMEONE'S ALWAYS WATCHING!!!